

SYNCHRONISM ACQUISITION SYSTEM FOR SPECTRUM SPREAD COMMUNICATION

Patent Number: JP4079438
Publication date: 1992-03-12
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Requested Patent: ☐ JP4079438
Application Number: JP19900190277 19900718
Priority Number(s):
IPC Classification: H04L7/00 ; H04J13/00
EC Classification:
Equivalents: JP2890723B2

Abstract

PURPOSE: To acquire synchronism regardless of reduction of mutual correlations by not using a threshold level but detecting the peak of a mutual correlation value to discriminate acquisition of synchronism.

CONSTITUTION: A pseudo random (PN) code generator 10 generates two PN codes which have the same code string and are different in code phase from each other by 180 deg., and a correlator 8 outputs the correlation value between a reception signal and one PN code, and a correlator 9 outputs the correlation value between the reception signal and the other PN code. A synchronism acquisition control part 12 detects peaks of respective correlation values to control the clock speed of a clock generator 11, and the clock generator 11 supplies a PN code generating clock. Thus, synchronism is accurately acquired even if correlation values are reduced by the noise of a transmission line.

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